

# Lubricant Analysis Report

800-537-7683

0	1	2	3	4
NORMAL	ABNORMAL	CRITICAL		

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: 593000-0157-0000 Company Name: LUBRICATION TECHNOLOGIES Contact: Address: 120 BOSWORTH STREET WEST SPRINGFIELD, MA 01089 US Phone Number: 413-788-5823		Component ID: X5350 HT Secondary ID: Component Type: HYDROSTATIC TRANSMISSION Manufacturer: ZF Model: Missing Information Application: AUTOMOTIVE Sump Capacity: 0 gal		Tracking Number: 12146V07341 Lab Number: I-091117 Lab Location: Indianapolis Data Analyst: JUK Sampled: 05-Nov-2012 Received: 30-Nov-2012 Completed: 05-Dec-2012	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: Missing Information Micron Rating: 0		Miscellaneous:		Product Manufacturer: ZF Product Name: LIFEGUARD FLUID Viscosity Grade: NO GRADE	
Comments	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Gear and/or bearing metal is at a MODERATE LEVEL; Bushing/Thrust metal is at a MODERATE LEVEL; Aluminum is at a MINOR LEVEL; ALUMINUM source in GEAR SYSTEMS may be BUSHING/THRUST metal, ALUMINA SILICA (Dirt), HOUSING metal or contamination from ALUMINUM COMPLEX GREASE; Your note was taken into consideration;				

Sample #	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)						Additive Metals (ppm)				
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorous	Zinc
1	180	0	0	31	248	1	20	0	0	0	7	12	0	0	0	0	13	0	75	2	493	0	342	13

Sample Information								Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time mi	Unit Time mi	Lube Change	Lube Added	Filter Change	Fuel Dilution % Vol	Soot % Vol	Water % Vol	Viscosity 40°C cSt	Viscosity 100 °C cSt	Acid Number mg KOH/g	Base Number mg KOH/g	Oxidation abs/cm	Nitration abs/0.1 mm
1	05-Nov-2012	30-Nov-2012	75085	75085	Yes		Yes					5.4	1.71			

Sample #	Particle Count (particles/mL)										Additional Testing	
	ISO Code Based On 4/6/14	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method	KF 6304C	
1	22/19/13	33307	3382	257	75	23	2	0	0	Laser	114	

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing fluid or component information limits the evaluation. No warranty is expressed or implied.