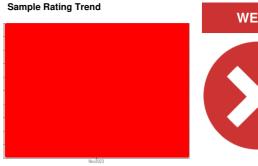


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Iron and titanium ppm levels are severe. PQ levels are severe. Chromium ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

Contamination

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

				Nov2023		
CAMPLE INCOR		d			late to a second	la la tarri O
SAMPLE INFOR	MATIO		limit/base	current	history1	history2
Sample Number		Client Info		GFL0094025		
Sample Date		Client Info		29 Nov 2023		
Machine Age	kms	Client Info		6340		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*	>500	870		
Iron	ppm	ASTM D5185(m)	>800	2709		
Chromium	ppm	ASTM D5185(m)	>10	<u> 11</u>		
Nickel	ppm	ASTM D5185(m)	>5	1		
Titanium	ppm	ASTM D5185(m)	>15	3 6		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>75	438		
Lead	ppm	ASTM D5185(m)	>10	2		
Copper	ppm	ASTM D5185(m)	>75	5		
Tin	ppm	ASTM D5185(m)	>8	0		
Antimony	ppm	ASTM D5185(m)	>50	0		
Vanadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		8		
Barium	ppm	ASTM D5185(m)		1		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		27		
Magnesium	ppm	ASTM D5185(m)		73		
Calcium	ppm	ASTM D5185(m)		2322		
Phosphorus	ppm	ASTM D5185(m)		760		
Zinc	ppm	ASTM D5185(m)		971		
Sulfur	ppm	ASTM D5185(m)		8175		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>400	1729		
Sodium	ppm	ASTM D5185(m)		78		
Potassium	ppm	ASTM D5185(m)	>20	141		
Water	%	ASTM D6304*	>0.2	△ 0.932		
ppm Water	ppm	ASTM D6304*	>2000	9325		



OIL ANALYSIS REPORT

