

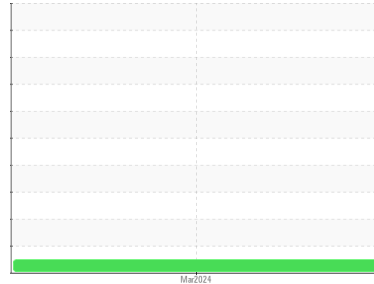


OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area
PLAEMP
 Machine Id
PHASE 1 HOT OIL
 Component
Heat Transfer Fluid
 Fluid
ESSO OIL 1156 (--- GAL)



DIAGNOSIS

▲ Recommendation

This is a baseline read-out on the submitted sample.

▲ Fluid Condition

Acid Number (AN) is severely high. Visc @ 40°C is abnormally high. COC Flash Point is marginally high.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC	---	---
Sample Date	Client Info		04 Mar 2024	---	---
Machine Age	yrs	Client Info	0	---	---
Oil Age	yrs	Client Info	52	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	<1	---
Chromium	ppm	ASTM D5185(m)	>21	0	---
Nickel	ppm	ASTM D5185(m)	>21	<1	---
Titanium	ppm	ASTM D5185(m)	>21	0	---
Silver	ppm	ASTM D5185(m)	>21	0	---
Aluminum	ppm	ASTM D5185(m)	>21	<1	---
Lead	ppm	ASTM D5185(m)	>21	0	---
Copper	ppm	ASTM D5185(m)	>21	0	---
Tin	ppm	ASTM D5185(m)	>21	1	---
Antimony	ppm	ASTM D5185(m)	>21	0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0	---
Barium	ppm	ASTM D5185(m)		0	---
Molybdenum	ppm	ASTM D5185(m)		0	---
Manganese	ppm	ASTM D5185(m)		0	---
Magnesium	ppm	ASTM D5185(m)		<1	---
Calcium	ppm	ASTM D5185(m)		0	---
Phosphorus	ppm	ASTM D5185(m)		0	---
Zinc	ppm	ASTM D5185(m)		<1	---
Sulfur	ppm	ASTM D5185(m)	1000	3726	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<1	---
Sodium	ppm	ASTM D5185(m)	>21	0	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---
Water	%	ASTM D6304*	>0.0601	0.003	---
ppm Water	ppm	ASTM D6304*	>601	30	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		▲ 0.42	---

