

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 77E-2A

Component Gearbox

Fluid HIGH PERFORMANCE LUBRICANTS GEAR LIFE 150 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

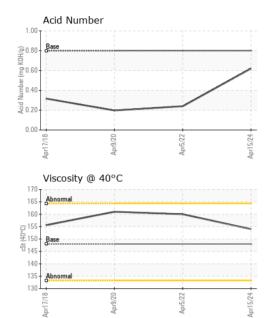
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		HPL0005006	HPL0000454	HPL008757	
Sample Date		Client Info		15 Apr 2024	05 Apr 2022	09 Apr 2020	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base currer		history1	history2	
Water		WC Method	>0.2	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	12	<1	2	
Chromium	ppm	ASTM D5185m	>15	<1	0	0	
Nickel	ppm	ASTM D5185m	>15	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1	
Lead	ppm	ASTM D5185m	>100	0	0	<1	
Copper	ppm	ASTM D5185m	>200	<1	<1	<1	
Tin	ppm	ASTM D5185m	>25	<1	0	0	
Antimony	ppm	ASTM D5185m	>5			13	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	0	
Barium	ppm	ASTM D5185m		1	0	0	
Molybdenum	ppm	ASTM D5185m		1	0	0	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m		2	0	0	
Calcium	ppm	ASTM D5185m		2	9	12	
Phosphorus	ppm	ASTM D5185m		140	100	74	
Zinc	ppm	ASTM D5185m		14	0	0	
Sulfur	ppm	ASTM D5185m		22884	12482	15454	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	17	2	3	
Sodium	ppm	ASTM D5185m		<1	0	0	
Potassium	ppm	ASTM D5185m	>20	1	0	0	
FLUID DEGRADA		method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.8	0.62	0.24	0.197	



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
/	Precipitate		*Visual	NONE	NONE	NONE	NONE
	Silt		*Visual	NONE	NONE	NONE	NONE
	Debris		*Visual	NONE	LIGHT	NONE	LIGHT
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
Apr5/22 -			*Visual	NORML	NORML	NORML	NORML
Apré	Appearance Odor		*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
	Free Water		*Visual		NEG	NEG	NEG
	FLUID PROPERT		method	limit/base	current	history1	history2
	Visc @ 40°C		ASTM D445	148	154	160	161
	SAMPLE IMAGES		method	limit/base	current	history1	history2
		5	method	IIIII/Dase	current		THSTOLYZ
Apr5/22 -	tolor				no image	no image	no image
	Bottom				no image	no image	no image
	GRAPHS Iron (ppm)			300 E 200	Outero		
	e 400 - Abnormal			E 200	1		
	Apr17/18 -		Apr5/22 -	Apr15/24 -	Apr17/18		Apro/27 -
	Aluminum (ppm)			60	Chromium (T Severe	opm)	
	E 100			⁴⁰ ع	Abnormal		
	⁵⁰ Abnormal				Abnormal		1
	Apr17/18		Apr5/22 -	Apr15/24 -	Apr17/18 -	Apr9/20 -	Apl5/27.
	⊲ Copper (ppm)			A	⊲ Silicon (ppm		
	600 400			150	Octore		-,
	400 - Aevere			¹⁰⁰	Abnormal		
	0						
	Apr17/18 Apr9/20		Apr5/22	Apr15/24	Apr17/18	Apr9/20	22/cJqA
	Apr		A			A, A	A V
	Viscosity @ 40°C			(B/HC	Acid Number	-	
	2 160 Abnormal			JY 1.00	Base		
	ි 160 - Abnormal 8 කිසි ශ් 140 - Abnormal			5/24 Acid Number (mg KOH/g)		1	
	120		2				+
	Apr17/18 Apr9/20		Apr5/22	Apr15/24 Aci	Apr17/18	Apr9/20	Api5/27.
Unique Num	ry : WearCheck USA - 50	1 Madison Receiv Tested Diagno	red : 22		IL. REFI	MARATHON PE NINF DIVISION, 400 Contact: 1	TROLEUM CO

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